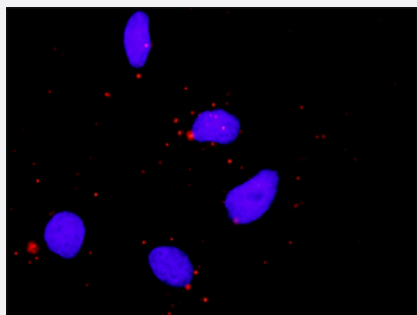


STAT1 & PDGFRA Protein Protein Interaction Antibody Pair

Catalog # DI0465

Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between STAT1 and PDGFRA. HeLa cells were stained with anti-STAT1 rabbit purified polyclonal antibody 1:1200 and anti-PDGFR α mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

Specification

Product Description

This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the STAT1 protein, and the other against the PDGFRA protein for use in [in situ Proximity Ligation Assay](#). [See Publication Reference below](#).

Reactivity

Human

Quality Control Testing

Protein protein interaction immunofluorescence result.
Representative image of Proximity Ligation Assay of protein-protein interactions between STAT1 and PDGFRA. HeLa cells were stained with anti-STAT1 rabbit purified polyclonal antibody 1:1200 and anti-PDGFR α mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

Supplied Product

Antibody pair set content:
1. STAT1 rabbit purified polyclonal antibody (100 μ g)
2. PDGFRA mouse monoclonal antibody (40 μ g)
*Reagents are sufficient for at least 30-50 assays using recommended protocols.

Storage Instruction

Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze-thaw cycle. Reagents should be returned to -20°C storage immediately after use.

Applications

- *In situ* Proximity Ligation Assay (Cell)

Gene Info — PDGFRA

Entrez GeneID	5156
Gene Name	PDGFRA
Gene Alias	CD140A, MGC74795, PDGFR2, Rhe-PDGFRA
Gene Description	platelet-derived growth factor receptor, alpha polypeptide
Omim ID	173490 606764 607685
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. These growth factors are mitogens for cells of mesenchymal origin. The identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer or a heterodimer, composed of both platelet-derived growth factor receptor alpha and beta polypeptides. Studies in knockout mice, where homozygosity is lethal, indicate that the alpha form of the platelet-derived growth factor receptor is particularly important for kidney development since mice heterozygous for the receptor exhibit defective kidney phenotypes. [provided by RefSeq]
Other Designations	FIP1L1/PDGFRA fusion protein platelet-derived growth factor receptor alpha rearranged-in-hyper eosinophilia-platelet derived growth factor receptor alpha fusion protein

Gene Info — STAT1

Entrez GeneID	6772
Gene Name	STAT1
Gene Alias	DKFZp686B04100, ISGF-3, STAT91
Gene Description	signal transducer and activator of transcription 1, 91kDa
Omim ID	209950 600555
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein can be activated by various ligands including interferon-alpha, interferon-gamma, EGF, PDGF and IL6. This protein mediates the expression of a variety of genes, which is thought to be important for cell viability in response to different cell stimuli and pathogens. Two alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq]

Other Designations

OTTHUMP00000165047|signal transducer and activator of transcription 1|signal transducer and activator of transcription-1|transcription factor ISGF-3 components p91/p84

Pathway

- [Calcium signaling pathway](#)
- [Chemokine signaling pathway](#)
- [Colorectal cancer](#)
- [Cytokine-cytokine receptor interaction](#)
- [Endocytosis](#)
- [Focal adhesion](#)
- [Gap junction](#)
- [Glioma](#)
- [Jak-STAT signaling pathway](#)
- [MAPK signaling pathway](#)
- [Melanoma](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Regulation of actin cytoskeleton](#)
- [Toll-like receptor signaling pathway](#)

Disease

- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Aneuploidy](#)
- [Arthritis](#)
- [Asthma](#)
- [Asthma](#)
- [Birth Weight](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchiolitis](#)
- [Campylobacter Infections](#)
- [Carcinoma](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cardiovascular Diseases](#)
- [Chronic Disease](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)

- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Gastrointestinal Stromal Tumors](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Glomerulonephritis](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [Hyperparathyroidism](#)
- [Hypersensitivity](#)
- [Infant](#)
- [Leukemia](#)
- [Leukemia](#)
- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)

- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Malignant melanoma](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Meningomyelocele](#)
- [Metabolic Syndrome X](#)
- [Multiple Sclerosis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neural Tube Defects](#)
- [Neutropenia](#)
- [Osteoporosis](#)
- [Osteoporosis](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Papillomavirus Infections](#)
- [Proteinuria](#)
- [Pulmonary Disease](#)
- [Respiratory Syncytial Virus Infections](#)
- [Salmonella Infections](#)
- [Spinal Dysraphism](#)
- [Subdural Effusion](#)
- [Thrombocytopenia](#)
- [Thyroid Neoplasms](#)

- [Tobacco Use Disorder](#)
- [Tobacco Use Disorder](#)
- [Tooth Abnormalities](#)
- [Tuberculosis](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Viremia](#)
- [Vitiligo](#)
- [Werner syndrome](#)